



DFW #
PTO/SB/21 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/033,571-Conf. #9714
		Filing Date	December 27, 2001
		First Named Inventor	Shuyuan Zhang
		Art Unit	1648
		Examiner Name	M. Mosher
Total Number of Pages in This Submission		Attorney Docket Number	29853/37702

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input checked="" type="checkbox"/> CD, Number of CD(s) <u>1</u>	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		

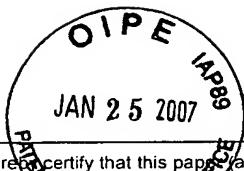
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	MARSHALL, GERSTEIN & BORUN LLP		
Signature			
Printed name	Jeffrey S. Sharp		
Date	January 23, 2007	Reg. No.	31,879

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: January 23, 2007

Signature: (Jeffrey S. Sharp)



I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to:
MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA
22313-1450.

Dated: January 23, 2007

Signature:

Docket No.: 29853/37702
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Shuyuan Zhang et al.

Application No.: 10/033,571

Confirmation No.: 9714

Filed: December 27, 2001

Art Unit: 1648

For: AN IMPROVED METHOD FOR THE
PRODUCTION AND PURIFICATION OF
ADENOVIRAL VECTORS

Examiner: M. Mosher

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith electronic copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

01/26/2007 SLUANG1 00000005 10033571

180.00 DP

01 FC:1806

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Our check in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p) is enclosed. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 29853/37702.

Dated: January 23, 2007

Respectfully submitted,

By _____

Jeffrey S. Sharp

Registration No.: 31,879

MARSHALL, GERSTEIN & BORUN LLP

233 S. Wacker Drive, Suite 6300

Sears Tower

Chicago, Illinois 60606-6357

(312) 474-6300

Attorney for Applicant



PTO/SB/08A/B (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

7

Complete if Known	
Application Number	10/033,571-Conf. #9714
Filing Date	December 27, 2001
First Named Inventor	Shuyuan Zhang
Art Unit	1648
Examiner Name	M. Mosher

Attorney Docket Number 29853/37702

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
A1	US-2002/0018723-A1	02-14-2002	Mera et al.		
A2	US-2002/0045160-A1	04-18-2002	Carrion et al.		
A3	US-4,797,368	01-10-1989	Carter et al.		
A4	US-5,106,841	04-21-1992	Scheer		
A5	US-5,139,941	08-18-1992	Muzyczka et al.		
A6	US-5,552,309	09-03-1996	March		
A7	US-5,670,488	09-23-1997	Gregory et al.		
A8	US-5,733,720	03-31-1998	Olivo		
A9	US-5,789,244	08-04-1998	Heidrun et al.		
A10	US-5,824,544	10-20-1998	Armentano et al.		
A11	US-5,932,210	08-03-1999	Gregory		
A12	US-5,965,358	10-12-1999	Carrion et al.		
A13	US-6,143,290	11-07-2000	Zhang et al.		
A14	US-6,143,548	11-07-2000	O'Riordan, et al.		
A15	US-6,168,944	01-02-2001	Condon et al.		
A16	US-6,194,191	02-27-2001	Zhang et al.		
A17	US-6,194,210	02-27-2001	Leu et al.		
A18	US-6,261,823	07-17-2001	Tang et al.		
A19	US-6,316,185	11-13-2001	Saifer, et al.		
A20	US-6,383,795	05-07-2002	Carrion et al.		
A21	US-6,447,995	09-10-2002	Carrion et al.		
A22	US-6,586,226-A1	07-01-2003	Carrion et al.		
A23	US-6,689,600	02-10-2004	Wu et al.		
A24	US-6,726,904-A1	04-27-2004	Krauss et al.		
A25	US-60/026,667	09-25-1996	Guillaume et al.		
A26	US-60/082,628	04-22-1998	Carrion et al.		
A27	US-7,125,706-A1	10-24-2006	Zhang et al.		

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
B1	JP-1279843		11-10-1989	Moritsugu Yasuo		
B2	EP-0273085		07-06-1988	Battelle Memorial Institute		
B3	WO-93/18790		09-30-1993	Csatary Laszlo		
B4	WO-95/10601		04-20-1995	Viagene, Inc.		
B5	WO-95/19427		07-20-1995	Genetic Therapy, Inc.		
B6	WO-96/32116		10-17-1996	Inhale Therapeutic Systems		
B7	WO-98/22588		05-28-1998	Introgen Therapeutics, Inc.		
B8	WO-98/26048		06-18-1998	Schering Corp.		
B9	WO-98/35554		08-20-1998	Canji, Inc.		
B10	WO-99/12568		03-18-1999	Merch & Co., Inc.		
B11	WO-99/41416		08-19-1999	Schering Corp.		
B12	WO-99/43843		09-02-1999	Univ. Johns Hopkins Med.		

Examiner Signature	Date Considered
--------------------	-----------------

956201

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/033,571-Conf. #9714
				Filing Date	December 27, 2001
				First Named Inventor	Shuyuan Zhang
				Art Unit	1648
				Examiner Name	M. Mosher
Sheet	2	of	7	Attorney Docket Number	29853/37702

B13	WO-99/54441	10-28-1999	Genvec, Inc.	
B14	WO-00/32754	06-08-2000	Introgen Therapeutics, Inc.	
B15	WO-00/34444	06-15-2000	Genvec, Inc.	
B16	WO-00/40702	07-13-2000	Genvec, Inc.	
B17	WO-02/29388	04-11-2002	Genvec, Inc.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	C1	Arap et al., "Replacement of the p16/CDKN2 gene suppresses human glioma cell growth," <i>Cancer Res.</i> , 55:1351-1354, 1995.		
	C2	Baichwal and Sugden, In: Kucherlapati R, ed. Gene Transfer. New York: Plenum Press, pp. 117-148, 1986.		
	C3	Batra et al., "IkappaBalpha gene transfer is cytotoxic to squamous-cell lung cancer cells and sensitizes them to tumor necrosis factor-alpha-mediated cell death," <i>Am. J. Respir. Cell Mol. Biol.</i> , 21:238-245, 1999.		
	C4	Benvenisty and Neshif, "Direction introduction of genes into rats and expression of the genes," <i>Proc. Nat'l Acad. Sci. USA</i> , 83:9551-9555, 1986.		
	C5	Blackwell et al., "Retargeting to EGFR enhances adenovirus infection efficiency of squamous cell carcinoma," <i>Arch. Otolaryngol Head Neck Surg.</i> , 125:856-863, 1999.		
	C6	Bussemakers et al., "Decreased expression of E-cadherin in the progression of rat prostatic cancer," <i>Cancer Res.</i> , 52:2916-2922, 1992.		
	C7	Butman et al., "High sensitivity HPLC method for determining viral particle concentration," Presentation, 2000.		
	C8	Caldas et al., "Frequent somatic mutations and homozygous deletions of the p16 (MTSI) gene in pancreatic adenocarcinoma," <i>Nat. Genet.</i> , 8:27-32, 1994.		
	C9	Carrion et al., "Intrinsic fluorescence of adenovirus type S: A sensitive detection alternative," <i>Molecular Ther.</i> , 3:438, 2001.		
	C10	Cartwright, "Fermenter design for animal cell cultures," Animal Cells as Bioreactors, Cambridge University Press, 58-63, 1994.		
	C11	Carver et al., "Transgenic livestock as bioreactors: stable expression of human alpha-1-antitrypsin by a flock of sheep," <i>Biotechnology NY</i> , 11:1263-1270, 1993.		
	C12	Casey et al., "Growth suppression of human breast cancer cells by the introduction of a wild-type p53 gene," <i>Oncogene</i> , 6:1791-1797, 1991.		
	C13	Chen and Okayama, "High-efficiency transfection of mammalian cells by plasmid DNA," <i>Mol. Cell Biol.</i> , 7:2745-2752, 1987.		
	C14	Cheng et al., "p16 Alterations and deletion mapping of 9p21-p22 in malignant mesothelioma," <i>Cancer Res.</i> , 54:5547-5551, 1994.		
	C15	Cheung et al., "Cell-CAM105 isoforms with different adhesion functions are coexpressed in adult rat tissues and during liver development," <i>J. Biol. Chem.</i> , 268:6139-6146, 1993.		
	C16	Cheung et al., "Structure and function of C-CAM1," <i>J. Biol. Chem.</i> , 268(32):24303-24310,		

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/033,571-Conf. #9714
				Filing Date	December 27, 2001
				First Named Inventor	Shuyuan Zhang
				Art Unit	1648
				Examiner Name	M. Mosher
Sheet	3	of	7	Attorney Docket Number	29853/37702

		1993.	
	C17	Cheung et al., "the cytoplasmic domain of C-CAM is required for C-CAM-mediated adhesion function: studies of a C-CAM transcript containing an unspliced intron," <i>Biochem. J.</i> , 295:427-435, 1993.	
	C18	Chillon et al., "Group D adenoviruses infect primary central nervous system cells more efficiently than those from Group C," <i>J. Virol.</i> , 73:2537-2540, 1990.	
	C19	Chroboczek et al., "The sequence of the genome of adenovirus Type 5 and its comparison with the genome of adenovirus Type 2," <i>Virology</i> , 186:280-285, 1992.	
	C20	Coffin, "Retroviridae and their application," In: <i>Virology</i> , Fields et al. (eds.), New York: Raven Press, pp. 1437-1500, 1990.	
	C21	Corveleyen and Remon, "Maltodextrins as lyoprotectants in the lyophilization of a model protein, LDH," <i>Pharm. Res.</i> , 13:146-150, 1996.	
	C22	Coupar et al., "A general method for the construction of recombinant vaccinia virus expressing multiple foreign genes," <i>Gene</i> , 68:1-10, 1988.	
	C23	Cristiano et al., "Viral and nonviral gene delivery vectors for cancer gene therapy," <i>Cancer Detect Prev.</i> , 22:445-454, 1998.	
	C24	Croyle et al., "Factors that influence stability of recombinant adenoviral preparations for human gene therapy," <i>Pharm. Dev. Technol.</i> , 3(3):373-383, 1998.	
	C25	Declaration of Peter Clark, Ph.D.: submitted in European Patent Application No. 97950677.1.	
	C26	Dorai et al., "A recombinant defective adenoviral agent expressing anti-bcl-2 ribozyme promotes apoptosis of bcl-2-expressing human prostate cancer cells," <i>Int. J. Cancer</i> , 82:846-852, 1999.	
	C27	Dubensky et al., "Direct transfection of viral and plasmid DNA into the liver or spleen of mice," <i>Proc. Nat. Acad. Sci. USA</i> , 81:7529-7533, 1984.	
	C28	Edelman and Crossin, "Cell adhesion molecules: implications for a molecular histology," <i>Annu. Rev. Biochem.</i> , 60:155-190, 1991.	
	C29	Edelman, "Cell adhesion and the molecular processes of morphogenesis," <i>Annu. Rev. Biochem.</i> , 54:135-169, 1985.	
	C30	Fechheimer et al., "Transfection of mammalian cells with plasmid DNA by scrape loading and sonication loading," <i>Proc. Nat. Acad. Sci. USA</i> , 84:8463-8467, 1987.	
	C31	Feldman et al., "Perspectives of arterial gene therapy for the prevention of restenosis," <i>Cardiovasc. Res.</i> , 32:194-204, 1996.	
	C32	Ferkol et al., "Regulation of the phosphoenolpyruvate carboxykinase/human factor IX gene introduced into the livers of adult rats by receptor-mediated gene transfer," <i>FASEB J.</i> , 7:1081-1091, 1993.	
	C33	Fraley et al., "Entrapment of a bacterial plasmid in phospholipid vesicles: potential for gene transfer," <i>Proc. Nat. Acad. Sci. USA</i> , 76:3348-3352, 1979.	
	C34	Freshney, "Animal Cell Culture: a Practical Approach," Second Edition, Oxford/New York, IRL Press, Oxford University Press, 1992.	
	C35	Fried and Bromberg, "Factors that affect the stability of protein-DNA complexes during gel electrophoresis," <i>Electrophoresis</i> , 18:6-11, 1997.	
	C36	Frixen et al., "E-cadherin-mediated cell-cell adhesion prevents invasiveness of human carcinoma cells," <i>J. Cell Biol.</i> , 113:173-185, 1991.	
	C37	Ghosh and Bachhawat, In: <i>Liver Disease, Targeted Diagnosis and Therapy using Specific Receptors and Ligands</i> , Wu G, Wu C (eds.), Marcel Dekker, New York, pp. 87-104, 1991.	
	C38	Giancotti and Ruoslahti, "Elevated levels of the $\alpha 5\beta 1$ fibronectin receptor suppress the transformed phenotype of Chinese hamster ovary cells," <i>Cell</i> , 60:849-859, 1990.	
	C39	Gopal, "Gene transfer method for transient gene expression, stable transfection, and	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/033,571-Conf. #9714
				Filing Date	December 27, 2001
				First Named Inventor	Shuyuan Zhang
				Art Unit	1648
				Examiner Name	M. Mosher
Sheet	4	of	7	Attorney Docket Number	29853/37702

		cotransfection of suspension cell cultures," <i>Mol. Cell Biol.</i> , 5:1188-1190, 1985.	
	C40	Graham and Prevec, "Methods for construction of adenovirus vectors," <i>Mol. Biotechnol.</i> , 3:207-220, 1995.	
	C41	Graham and Van Der Eb, "A new technique for the assay of infectivity of human adenovirus 5 DNA," <i>Virology</i> , 52:456-467, 1973.	
	C42	Hall et al., "Stabilizing effect of sucrose against irreversible denaturation of rabbit muscle lactate dehydrogenase," <i>Biophys. Chem.</i> , 57:47-54, 1995.	
	C43	Harland and Weintraub, "Translation of mammalian mRNA injected into Xenopus oocytes is specifically inhibited by antisense RNA," <i>J. Cell Biol.</i> , 101:1094-1099, 1985.	
	C44	Herman et al., "The effect of bulking agent on the solid-state stability of freeze-dried methylprednisolone sodium succinate," <i>Pharm. Res.</i> , 11:1467-1473, 1994.	
	C45	Hermens and Verhaagen, "Viral vectors, tools for gene transfer in the nervous system," <i>Prog. Neurobiol.</i> , 55:399-432, 1998.	
	C46	Hermonat and Muzycka, "Use of adenoassociated virus as a mammalian DNA cloning vector: Transduction of neomycin resistance into mammalian tissue culture cells," <i>Proc. Nat. Acad. Sci. USA</i> , 81:6466-6470, 1984.	
	C47	Hollstein et al., "p53 mutations in human cancers," <i>Science</i> , 253:49-53, 1991.	
	C48	Hurwitz et al., "Suicide gene therapy for treatment of retinoblastoma in a murine model," <i>Human Gene Therapy</i> , 10:441-448, 1999.	
	C49	Hussussian et al., "Germline p16 mutations in familial melanoma," <i>Nature Genetics</i> , 8(1):15-21, 1994.	
	C50	Irie et al., "Therapeutic efficacy of an adenovirus-mediated anti-H-ras ribozyme in experimental bladder cancer," <i>Antisense Nucleic Acid Drug Dev.</i> , 9:341-349, 1999.	
	C51	Ishibashi et al., "Hypercholesterolemia in low density lipoprotein receptor knockout mice and its reversal by adenovirus-mediated gene delivery," <i>J. Clin. Invest.</i> , 92:883-893, 1993.	
	C52	Jardon and Garnier, "PH, pCO ₂ , and temperature effect on R-adenovirus production," <i>Biotechnol. Prog.</i> , 19:202-208, 2003.	
	C53	Jiang et al., "The melanoma differentiation associated gene mda-7 suppresses cancer cell growth," <i>Proc. Nat. Acad. Sci. USA</i> , 93:9160-9165, 1996.	
	C54	July 17, 2006: Minutes of Oral Proceedings Before the Examining Division with decision to grant European Patent Application No. 97950677.1.	
	C55	Kamb et al., "A cell cycle regulator potentially involved in genesis of many tumor types," <i>Science</i> , 264:436-440, 1994.	
	C56	Kamb et al., "Analysis of the p16 gene (CDKN2) as a candidate for the chromosome 9p melanoma susceptibility locus," <i>Nature Genetics</i> , 8:22-26, 1994.	
	C57	Kaneda et al., "Increased expression of DNA cointroduced with nuclear protein in adult rat liver," <i>Science</i> , 243:375-378, 1989.	
	C58	Kato et al., "Expression of hepatitis b virus surface antigen in adult rat liver," <i>J. Biol. Chem.</i> , 266:3361-3364, 1991.	
	C59	Klein et al., "High-velocity microprojectiles for delivering nucleic acids into living cells," <i>Nature</i> , 327:70-73, 1987.	
	C60	Kotani et al., "Improved methods of retroviral vector transduction and production for gene therapy," <i>Human Gene Therapy</i> , 5:19-28, 1994.	
	C61	Kraft et al., "Cell cycle-dependent multiplicities of avian adenovirus in chicken embryo fibroblasts," <i>Archives of Virology</i> , 57:243-254, 1978.	
	C62	Lesch, "Gene transfer to the brain: emerging therapeutic strategy in psychiatry?," <i>Biol. Psychiatry</i> , 45:247-253, 1999.	
	C63	Lin and Guidotti, "Cloning and expression of a cDNA coding for a rat liver plasma membrane	

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/033,571-Conf. #9714
				Filing Date	December 27, 2001
				First Named Inventor	Shuyuan Zhang
				Art Unit	1648
				Examiner Name	M. Mosher
Sheet	5	of	7	Attorney Docket Number	29853/37702

C64	ecto-ATPase," <i>J. Biol. Chem.</i> , 264:14408-14414, 1989.
C65	Lu et al., "Coat protein interactions involved in tobacco mosaic tobamovirus cross-protection," <i>Virology</i> , 248:188-198, 1998.
C66	Lueckel et al., "Formulations of sugars with amino acids or mannitol-influence of concentration ratio on the properties of the freeze-concentrate and the lyophilizate," <i>Pharm. Dev. Technol.</i> , 3:326-336, 1998.
C67	Marienfeld et al., "Autoreplication of the vector genome in recombinant adenoviral vectors with different E1 region deletions and transgenes," <i>Gene Ther.</i> , 6:1101-1113, 1999.
C68	Matsuura et al., "Altered expression of e-cadherin in gastric cancer tissues and carcinomatous fluid," <i>Brit. J. Cancer</i> , 66:1122-1130, 1992.
C69	Mercer, "Cell cycle regulation and the p53 tumor suppressor protein," <i>Critic. Rev. Eukar. Gene Express</i> , 2:251-263, 1992.
C70	Mincheff et al., "Naked DNA and adenoviral immunizations for immunotherapy of prostate cancer: a phase I/II clinical trial," <i>Eur. Urol.</i> , 38:208-217, 2000.
C71	Mori et al., "Frequent somatic mutation of the MTS1/CDK4 (Multiple Tumor suppressor/Cyclin dependent Kinase 4 Inhibitor) gene in esophageal squamous cell carcinoma," <i>Cancer Res.</i> , 54:3396-3397, 1994.
C72	Morrison et al., "Complete DNA sequence of canine adenovirus type 1," <i>J. Gen. Virol.</i> , 78:873-878, 1997.
C73	Murakami et al., "Quantitation of adenovirus DNA and virus particles with the PicoGreen fluorescent-Dye," <i>Analytical Biochemistry</i> , 274:283-288, 1999.
C74	Murphy et al., "Virus taxonomy, in B.N. Fields et al. (ed.), <i>Fields Virology</i> , 3rd edition Philadelphia: Lippencott-Raven Publishers: Table 6, pp.51-54, 1996.
C75	Nicolau and Sene, "Liposome-mediated DNA transfer in eukaryotic cells," <i>Biochem. Biophys. Acta</i> , 721:185-190, 1982.
C76	Nicolau et al., "Liposomes as carriers for in vivo gene transfer and expression," <i>Methods Enzymol.</i> , 149:157-176, 1987.
C77	Nobori et al., "Deletions for the cyclin-dependent kinase-4 inhibitor gene in multiple human cancers," <i>Nature</i> , 368:753-756, 1994.
C78	Obrink, "C-CAM (cell-CAM 105) - a member of the growing immunoglobulin superfamily of cell adhesion proteins," <i>BioEssays</i> , 13:227-233, 1991.
C79	Odin and Obrink, "Quantitative determination of the organ distribution of the cell adhesion molecule cell-CAM 105 by radioimmunoassay," <i>Exp. Cell Res.</i> , 171:1-15, 1987.
C80	Okamoto et al., "Mutations and altered expression of p16INK4 in human cancer," <i>Proc. Nat. Acad. Sci. USA</i> , 91:11045-11049, 1994.
C81	Orlow et al., "Chromosome 9 allelic losses and microsatellite alterations in human bladder tumors," <i>Cancer Res.</i> , 54:2848-2851, 1994.
C82	Parks et al., "A helper-dependent system for adenovirus vector production helps define a lower limit for efficient DNA packaging," <i>J. Virol.</i> , 71:3293-3298, 1997.
C83	Paskind et al., "Dependence of moloney murine leukemia virus production on cell growth," <i>Virology</i> , 67:242-248, 1975.
C84	Perales et al., "Gene transfer in vivo: sustained expression and regulation of genes introduced into the liver by receptor-targeted uptake," <i>Proc. Nat. Acad. Sci. USA</i> , 91:4086-4090, 1994.
C85	Petrof, "Respiratory muscles as a target for adenovirus-mediated gene therapy," <i>Eur. Respir. J.</i> , 11:492-497, 1998.
	Potter et al., "Enhancer-dependent expression of human kappa immunoglobulin genes introduced into mouse pre-B lymphocytes by electroporation," <i>Proc. Nat. Acad. Sci. USA</i> , 81:7161-7165, 1984.

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/033,571-Conf. #9714
				Filing Date	December 27, 2001
				First Named Inventor	Shuyuan Zhang
				Art Unit	1648
				Examiner Name	M. Mosher
Sheet	6	of	7	Attorney Docket Number	29853/37702

C86	Racher et al., "Culture of 293 cells in different culture systems: cell growth and recombinant adenovirus production," <i>Biotechnology Techniques</i> , 9:169-174, 1995.	
C87	Reddy et al., "Nucleotide sequence and transcription map of porcine adenovirus type 3," <i>Virology</i> , 251:414-426, 1998.	
C88	Renan, "Cancer genes: current status, future prospects, and applications in radiotherapy/oncology," <i>Radiother. Oncol.</i> , 19:197-218, 1990.	
C89	Ridgeway, "Mammalian expression vectors," In: Rodriguez RL, Denhardt DT, ed. <i>Vectors: A survey of molecular cloning vectors and their uses</i> . Stoneham: Butterworth, pp.467-492, 1988.	
C90	Rippe et al., "DNA-mediated gene transfer into adult rat hepatocytes in primary culture," <i>Mol. Cell Biol.</i> , 10:689-695, 1990.	
C91	Robbins and Ghivizzani, "Viral vectors for gene therapy," <i>Pharmacol. Ther.</i> , 80:35-47, 1998.	
C92	Robbins et al., "Viral vectors for gene therapy," <i>Trends Biotechnol.</i> , 16:35-40, 1998.	
C93	Sagrera et al., "Study of the influence of salt concentration on Newcastle disease virus matrix protein aggregation," <i>Biochem. Mol. Biol. Int.</i> , 46:429-435, 1998.	
C94	Serrano et al., "A new regulatory motif in cell-cycle control causing specific inhibition of cyclin D/CDK4," <i>Nature</i> , 366:704-707, 1993.	
C95	Serrano et al., "Inhibition of ras-induced proliferation and cellular transformation by p16INK4," <i>Science</i> , 267:249-252, 1995.	
C96	Shabram et al., "Analytical anion-exchange HPLC of recombinant type-5 adenoviral particles," <i>Human Gene Therapy</i> , 8:453-465, 1997.	
C97	Stewart et al., "Adenovector-mediated gene delivery of interleukin-2 in metastatic breast cancer and melanoma: results of a phase 1 clinical trial," <i>Gene Ther.</i> , 6:350-363, 1999.	
C98	Takahasi et al., "Wild-type but not mutant p53 suppresses the growth of human lung cancer cells bearing multiple genetic lesions," <i>Cancer Res.</i> , 52:2340-2342, 1992.	
C99	Tur-Kaspa et al., "Use of electroporation to introduce biologically active foreign genes into primary rat hepatocytes," <i>Mol. Cell Biol.</i> , 6:716-718, 1986.	
C100	Umbas et al., "Expression of the cellular adhesion molecule E-cadherin is reduced or absent in high-grade prostate cancer," <i>Cancer Res.</i> , 52:5104-5109, 1992.	
C101	Vanderkwaak and Alvarez, "Immune directed therapy for ovarian carcinoma," <i>Curr. Opin. Obstet. Gynecol.</i> , 11:29-34, 1999.	
C102	Vanlandschoot et al., "pH-dependent aggregation and secretion of soluble monomeric influenza hemagglutinin," <i>Arch. Virol.</i> , 143:227-239, 1998.	
C103	Vossen and Fried, "Sequestration stabilizes lac repressor-DNA complexes during gel electrophoresis," <i>Anal. Biochem.</i> , 245:85-92, 1997.	
C104	Wagner et al., "Antisense gene inhibition by oligonucleotides containing C-5 propyne pyrimidines," <i>Science</i> , 260:1510-1513, 1990.	
C105	Wagner et al., "Transferrin-polycation conjugates as carriers for DNA uptake into cells," <i>Proc. Nat. Acad. Sci. USA</i> , 87(9):3410-3414, 1990.	
C106	Watt et al., "Human prostate-specific antigen: structural and functional similarity with serine proteases," <i>Proc. Nat. Acad. Sci. USA</i> , 83(2):3166-3170, 1986.	
C107	Weinberg, "Tumor suppressor genes," <i>Science</i> , 254:1138-1145, 1991.	
C108	Wilson, "Vehicles for gene therapy," <i>Nature</i> , 365:691-692, 1993.	
C109	Wilson, "When bad gene transfer is good," <i>J. Clin. Invest.</i> , 98:2435, 1996.	
C110	Wong et al., "Appearance of b-lactamase activity in animal cells upon liposome mediated gene transfer," <i>Gene</i> , 10:87-94, 1980.	
C111	Wu and Wu, "Evidence for targeted gene delivery to HepG2 hepatoma cells <i>in vitro</i> ," <i>Biochemistry</i> , 27:887-892, 1988.	

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/033,571-Conf. #9714
				Filing Date	December 27, 2001
				First Named Inventor	Shuyuan Zhang
				Art Unit	1648
				Examiner Name	M. Mosher
Sheet	7	of	7	Attorney Docket Number	29853/37702

C112	Wu and Wu, "Liver-directed gene delivery," <i>Adv. Drug Delivery Rev.</i> , 12:159-167, 1993.	
C113	Wu and Wu, "Receptor mediated <i>in vitro</i> gene transfections by a soluble DNA courier system," <i>J. Biol. Chem.</i> , 262:4429-4432, 1987.	
C114	Yang et al., "In vitro gene transfer to mammalian somatic cells by particle bombardment," <i>Proc. Nat. Acad. Sci. USA</i> , 87:9568-9572, 1990.	
C115	Yotnda et al., "Efficient infection of primitive hematopoietic stem cells by modified adenovirus," <i>Gene Ther.</i> , 8:930/937, 2001.	
C116	Zheng et al., "Transcription units of E1a, E1b and pIX regions of bovine adenovirus type 3," <i>J. Gen. Virol.</i> , 80:1735-1742, 1999.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

956201